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Suggested Power MOSFET Switches for Hot-Swap Controller ICs

Nov-99

N-Channel

| Part Number | Manufacturer | V(BR) _{DSS} | R _{DS(on)} @ V _{GS} =10V | I _D cont. @ 25°C | Package |
|--------------|------------------|----------------------|--|-----------------------------|---------|
| IRF7603 | Int. Rectifier | 30V | 35 milliohms max | 4.5A | Micro-8 |
| IRF7413 | Int. Rectifier | 30V | 11 milliohms max | 9.2A | SO-8 |
| IRL3803S | Int. Rectifier | 30V | 6 milliohms max | 140A | D2PAK |
| IRFR110 | Int. Rectifier | 100V | 540 milliohms max | 4.3A | DPAK |
| IRFR120 | Int. Rectifier | 100V | 270 milliohms max | 7.7A | DPAK |
| IRFR120N | Int. Rectifier | 100V | 210 milliohms max | 9.1A | DPAK |
| IRF3710S | Int. Rectifier | 100V | 25 milliohms max | 57A | D2PAK |
| RFD20N03SM | Intersil | 30V | 25 milliohms max | 20A | DPAK |
| HUF76129D3S | Intersil | 30V | 16 milliohms max | 20A | DPAK |
| RF1S70N03SM | Intersil | 30V | 10 milliohms max | 70A | D2PAK |
| HUF76143S3S | Intersil | 30V | 5.5 milliohms max | 75A | D2PAK |
| HUF76145S3S | Intersil | 30V | 4.5 milliohms max | 75A | D2PAK |
| HUF75631SK8 | Intersil | 100V | 39 milliohms max | 5.5A | SO-8 |
| HUF75637S3S | Intersil | 100V | 30 milliohms max | 44A | D2PAK |
| IXFX180N10 | IXYS | 100V | 8 milliohms max | 180A | TO-247 |
| MTSF3N03HD | Motorola | 30V | 40 milliohms max | 3A | Micro-8 |
| MMSF7N03HD | Motorola | 30V | 28 milliohms max | 8A | SO-8 |
| MTD20N03HDL2 | Motorola | 30V | 35 milliohms max | 20A | DPAK |
| MTD6N10E | Motorola | 100V | 400 milliohms max | 6A | DPAK |
| MTD9N10E | Motorola | 100V | 250 milliohms max | 9A | DPAK |
| Si6434DQ | Vishay Siliconix | 30V | 28 milliohms max | 5.6A | TSSOP-8 |
| Si6410DQ | Vishay Siliconix | 30V | 14 milliohms max | 7.8A | TSSOP-8 |
| Si4412DY | Vishay Siliconix | 30V | 28 milliohms max | 7A | SO-8 |
| Si4416DY | Vishay Siliconix | 30V | 18 milliohms max | 9A | SO-8 |
| Si4482DY | Vishay Siliconix | 100V | 60 milliohms max | 4.6A | SO-8 |

P-Channel

| Part Number | Manufacturer | V(BR) _{DSS} | R _{DS(on)} @ V _{GS} =10V | I _D cont. @ 25°C | Package |
|--------------|------------------|----------------------|--|-----------------------------|---------|
| IRF7606 | Int. Rectifier | -30V | 90 milliohms max | 2.9A | Micro-8 |
| IRF7416 | Int. Rectifier | -30V | 20 milliohms max | 7.1A | SO-8 |
| MTSF2P03HD | Motorola | -30V | 90 milliohms max | 2.4A | Micro-8 |
| MMSF3P02HD | Motorola | -20V | 75 milliohms max | 3A | SO-8 |
| MTD20P03HDL2 | Motorola | -30V | 99 milliohms max | 19A | DPAK |
| MTD6P10E | Motorola | -100V | 660 milliohms max | 6A | DPAK |
| Si6435DQ | Vishay Siliconix | -30V | 90 milliohms max | 4.5A | TSSOP-8 |
| Si6415DQ | Vishay Siliconix | -30V | 19 milliohms max | 6.5A | TSSOP-8 |
| Si4431DY | Vishay Siliconix | -30V | 40 milliohms max | 5.8A | SO-8 |
| Si4435DY | Vishay Siliconix | -30V | 20 milliohms max | 8A | SO-8 |